

**Amendments to the Specification:**

Please replace paragraph [ 0029 ] with the following:

[0029] The present invention provides significant advantages over the prior art. By initiating gain changes in the AGC responsive to the signal at the ~~input~~ output of the ADC (where the signal may be the superposition of the useful signal, DC offset, adjacent channels and blockers) the AGC implementation permits optimal use of the ADC's dynamic range. The degree of gain change may also be varied depending upon the magnitude of the signal at the ~~input~~ output of the ADC. Gain control is thus compatible with GPRS test modes. If the ADC is integrated in the RF chip, the detection is free, since the ADC can be used as the detector with the MSB bits of the output digital word indicating how far the ADC is from saturation.